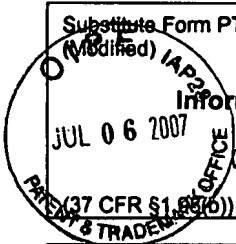


Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 10280-140003	Application No. 10/045,674
<b>Information Disclosure Statement</b> <b>by Applicant</b> (Use several sheets if necessary)		Applicant <b>Ladner et al.</b>	
		Filing Date October 25, 2001	Group Art Unit 1639



U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
J.E./	AA	5,565,332	10/15/1996	Hoogenboom et al.			
	AB	5,618,920	4/8/1997	Robinson et al.			
	AC	5,658,727	8/19/1997	Barbas et. al.			
	AD	5,723,323	3/3/1998	Kauffman et al.			
	AE	5,733,743	3/31/1998	Johnson et al.			
	AF	5,739,281	4/14/1998	Thogersen et al.			
	AG	5,750,373	5/12/1998	Garrard et al.			
	AH	5,780,279	7/14/1998	Matthews et al.			
	AI	5,814,476	9/29/1998	Kauffman et al.			
	AJ	5,817,483	10/6/1998	Kauffman et al.			
	AK	5,821,047	10/13/1998	Garrard et al.			
	AL	5,824,514	10/20/1998	Kauffman et al.			
	AM	5,830,663	11/3/1998	Embleton et al.			
	AN	5,837,242	11/17/1998	Holliger et al.			
	AO	5,840,479	11/24/1998	Little et al.			
	AP	5,846,765	12/8/1998	Matthews et al.			
	AQ	5,858,657	1/12/1999	Winter et al.			
	AR	5,871,907	2/16/1999	Winter et al.			
	AS	5,872,215	2/16/1999	Osbourne et al.			
	AT	5,885,793	3/23/1999	Griffiths et al.			
	AU	5,917,018	6/29/1999	Thogersen et al.			
	AV	5,962,255	10/5/1999	Griffiths et al.			
	AW	5,969,108	10/19/1999	McCafferty et al.			
	AX	5,976,862	11/2/1999	Kauffman et al.			
	AY	5,994,519	11/30/1999	Osbourne et al.			
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V	AAA	6,017,732	1/25/2000	Jespers et al.			

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	Applicant Ladner et al.		
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Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
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	ACC	6,057,098	5/2/2000	Buechler et al.			
	ADD	6,140,471	10/31/2000	Johnson et al.			
	AEE	6,172,197	1/9/2001	McCafferty et al.			
	AFF	6,180,336	1/30/2001	Osborn et al.			
	AGG	6,225,447	5/1/2001	Winter et al.			
	AHH	6,248,516	6/19/2001	Winter et al.			
	AII	6,291,158	9/18/2001	Winter et al.			
	AJJ	6,291,159	9/18/2001	Winter et al.			
	AKK	6,291,160	9/18/2001	Lerner et al.			
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	ANN	6,300,064	10/9/2001	Knappik et al.			
	AOO	6,319,690	11/20/2001	Little et al.			
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	AQQ	6,342,588	1/29/2002	Osborn et al.			
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	ASS	6,489,123	12/3/2002	Osborn et al.			
	ATT	6,492,107	12/10/2002	Kauffman et al.			
	AUU	6,492,123	12/10/2002	Holliger et al.			
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	AWW	6,521,404	2/18/2003	Griffiths et al.			
	AXX	6,544,731	4/8/2003	Griffiths et al.			
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	AZZ	6,555,313	4/29/2003	Griffiths et al.			
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Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
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	ADDD	6,589,527	7/8/2003	Griffiths et al.			
	AEEE	US2003/0130496	7/10/2003	Winter et al.			
	AFFF	6,593,081	7/15/2003	Griffiths et al.			
	AGGG	US2003/0148372	8/7/2003	Tomlinson et al.			
	AHHH	US2003/0190674	10/9/2003	Griffiths et al.			
	AIII	6,680,192	1/20/2004	Lerner et al.			
	AJJJ	6,696,245	2/24/2004	Winter et al.			
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	ALLL	US2004/0038921	2/26/2004	Kreutzer et al.			
	AMMM	6,706,484	3/16/2004	Knappik et al.			
	ANNN	US2004/0110941	6/10/2004	Winter et al.			
	AOOO	6,753,136	6/22/2004	Lohning			
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	ARRR	6,806,079	10/19/2004	McCafferty et al.			
	ASSS	6,828,422	12/7/2004	Achim et al.			
	ATTT	6,846,634	1/25/2005	Tomilson et al.			
	AUUU	6,916,605	7/12/2005	McCafferty et al.			
	AVVV	US2005/0202512	9/15/2005	Tomlinson et al.			
	AWWW	6,969,586	11/29/2005	Lerner et al.			
	AXXX	US2006/0003334	1/5/2006	Achim et al.			
	AYYY	US2006/0019260	1/26/2006	Lerner et al.			
	AZZZ	7,063,943	6/20/2006	McCafferty et al.			
✓	AAAAA	7,189,841	3/13/2007	Lerner et al.			

Foreign Patent Documents or Published Foreign Patent Applications							
Examiner	Desig.	Document	Publication	Country or	Class	Subclass	Translation
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							Yes	No
	ABBBB							
	ACCCG							

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
/J.E./	ADDDD	Arden, "Conserved motifs in T-cell receptor CDR1 and CDR2: implications for ligand and CD8 co-receptor binding" Current Opinion In Immunology, Current Biology LTD., 10(1):74-81, 1998, XP004313624.
	AEEEE	Barbas et al., "Human Autoantibody Recognition of DNA" Proc. Natl. Acad. Sci. 92:2529-2533, 1995, XP002927212.
	AFFFF	Davies et al., "Affinity improvement of single antibody VH domains: residues in all three hypervariable regions affect antigen binding", Immunotechnology 2(3):169-179, 1996, XP004070292.
	AGGGG	de Haard et al., "A Large Non-immunized Human Fab Fragment Phage Library That Permits Rapid Isolation and Kinetic Analysis of High Affinity Antibodies" Journal of Biological Chemistry, 274(26):18218-18230, 1999, XP002128301.
	AHHHH	Hoogenboom et al., "By-passing Immunisation Human Antibodies from Synthetic Repertoires of Germline V <sub>H</sub> Gene Segments Rearranged <i>in Vitro</i> " Journal of Molecular Biology, 227:381-388, 1992, XP002974448.
	AIIII	Knappik et al., "Fully Synthetic Human Combinatorial Antibody Libraries (HuCAL) Based on Modular Consensus Frameworks and CDRs Randomized with Trinucleotides" J. Mol. Biol., 296:57-86, 2000.
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↓	AKKKK	Tomlinson et al., "The Repertoire of Human Germline V <sub>H</sub> Sequences Reveals about Fifty Groups of V <sub>H</sub> Segments with Different Hypervariable Loops, Journal of Molecular Biology, 227:776-798, 1992, XP000990787.

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Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
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	AC						
	AD						
	AE						

**Foreign Patent Documents or Published Foreign Patent Applications**

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AF							
	AG							
	AH							
	AI							
	AJ							

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Examiner Initial	Desig. ID	Document
/J.E./	AK	Lowman, H.B.; Wells, J.A. "Affinity Maturation of Human Growth Hormone by Monovalent Phage Display" J. Mol. Biol. 1993, 234, 564-578.
/J.E./	AL	Seed, B. "Developments in expression cloning" Current Opinion in Biotechnology 1995, 6: 567-573.
/J.E./	AM	Suzuki, M.; Takemura, H.; Sumida, T. "Light Chain Determines the Binding Property of Human Anti-dsDNA IgG Autoantibodies" Biochem. Biophys. Res. Commun. April 29, 2000, 271, 240-243.
	AN	

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